**AP Biology Meiosis and Sexual Reproduction (Chapter 10 Outline)**

*Vocabulary*: Define in your own words

True-breeding-

Locus-

Alleles-

Homozygous-

Heterozygous-

Hemizygous-

Genotype-

Phenotype-

Testcross-

Carrier-

Polygenic traits-

Incomplete dominance-

Codominance-

Pleiotropy-

Autosome-

**Briefly describe the following concepts:**

Explain the chances that a color-blind woman who is married to a man with normal vision will produce the following offspring possibilities:

1. Color-blind sons
2. Color-blind daughters
3. Carrier daughters

What are the possible genotypes if a homozygous red-eyed *Drosophila* female is crossed with a red-eyed male?

State the chances of producing offspring with long wings and a black body from a testcross of a heterozygous (LlGg) fruit fly and a homozygous (llgg) fruit fly.

What are the two laws of probability and how do they apply to to a Punnett square? Explain the parts of each of the two laws of probability.

Explain inheritance by multiple alleles. Also, list the human blood types, and give the possible genotypes of each.

How did Mendel's procedure differ from that of his predecessors? What is his theory of inheritance called?

***ABOUT THE READING:***

Write three things that you learned about the Mendelian Genetics*:*

*Make sure to write a full sentence.*

*Example: I learned that colorblindness is a X chromosome linked genetic disorder that affects more males than females.*

*1.*

*2.*

*3.*